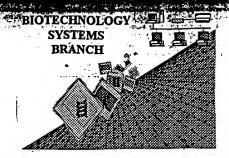
RAW SEQUENCE LISTING ERROR REPORT

MAR 2 6 2002



The Motechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: /0/0/0,050
Source: 0176
Date Processed by STIC: /2/20/2001

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

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- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
 1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202
 - U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Virginia 22202

a figure of the continue

4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence, Arlington, VA 22202



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/010,050

DATE: 12/20/2001

TIME: 13:16:25

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Does Not Comply
Corrected Diskette Needed

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RAW SEQUENCE LISTING DATE: 12/20/2001 PATENT APPLICATION: US/10/010,050 TIME: 13:16:25

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          gtncaytgga argaraaygg nacnytngtn cargtngcna cnathwsngg naayatgtty
                                                                                     540
          aaycaratgg cnaartgggt naarcargay aaygaracng gnathtayta ygaracntgg
                                                                                     600
```

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 12/20/2001
PATENT APPLICATION: US/10/010,050 TIME: 13:16:26

Input Set : A:\97-38C1.SEQ.txt

```
L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:302 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:302 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:303 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:303~M:258~W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:304 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:304 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#::13
L:305 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:305 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:306 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:306 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:307 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:307 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:308 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:308 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:309 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:309 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:310 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:310 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:311 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:311 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:312 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:312 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:313 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:313 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:314 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:314 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:315 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:315 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:316 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:316 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:317 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
```

VERIFICATION SUMMARY DATE: 12/20/2001 PATENT APPLICATION: US/10/010,050 TIME: 13:16:26

Input Set : A:\97-38C1.SEQ.txt

Output Set: N:\CRF3\12202001\J010050.raw

L:317 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:318 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:318 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:319 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:319 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/0/0, 050
ATTN: NEW RULES CASES	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWAF
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused fire <220>-<223> section to be missing from amino acid sequences(s) Normally, PalentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences' (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9 Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001